

IDO GREENBERG

[Scholar](#)

[GitHub](#)

[PyPI](#)

[Website](#)

[Blog](#)

[LinkedIn](#)

OBJECTIVE

I am an experienced researcher in algorithms and AI, eager to collaborate on innovative AI solutions that apply algorithmic and theoretical insights to real-world challenges.

PUBLICATIONS

- Greenberg, Mannor, Chechik, Meir: [Robust Meta RL](#), *NeurIPS*, 2023
- Greenberg, Yannay, Mannor: [How to Hack Kalman Filtering](#), *NeurIPS*, 2023
- Belogolovsky, Greenberg, Eytan, Mannor: [Individualized Dosing Dynamics via Neural Eigen Decomposition](#), *NeurIPS*, 2023
- Greenberg, Chow, Ghavamzadeh, Mannor: [Efficient Risk Averse RL](#), *NeurIPS*, 2022
- Google Research: [Planning in Open-Ended Dialogues via RL](#), *preprint*, 2022
- Greenberg, Mannor: [Detecting Rewards Deterioration in RL](#), *ICML*, 2021
- Greenberg, Shkolnisky: [Common Lines Modeling for Reference Free Reconstruction in Cryo-EM](#), *Journal of Structural Biology*, 2017
- Pragier, Greenberg, Cheng, Shkolnisky: [A graph partitioning approach to simultaneous angular reconstitution](#), *IEEE TCI*, 2016

ML-RELATED WORK EXPERIENCE

- | | | |
|---|-----------------------|--------------------------------|
| 2023- | Nvidia | Research intern |
| ▪ Accelerating SOTA solvers of NP-hard problems by up to 50% via RL | | |
| 2022-2022 | Nvidia | Research intern |
| ▪ Applying sampling methods for robust meta-RL [related paper] | | |
| 2021-2021 | Google | Research intern |
| ▪ Applying RL to open-ended conversations in Google Assistant [related paper] | | |
| ▪ Spot-bonus for delivering to production beyond the internship scope | | |
| 2017-2020 | Istra Research | Quantitative Researcher |
| ▪ Pricing financial assets using mathematical, statistical & learning tools | | |
| ▪ End2end design and development of a new infrastructure for statistical tests | | |
| ▪ Development-of and responsibility-over trading in a new geographical asset | | |

EDUCATION

- | | |
|---|-----------------|
| 2020- | Technion |
| PhD in Electrical Engineering (supervisor: Prof. Shie Mannor) | |
| ▪ Field of research: Reinforcement Learning | |
| ▪ Faculty Excellence Scholarships (2021, 2022 and 2023) | |
| ▪ Vatat Prize for Multidisciplinary Research (The Council for Higher Education, 2022) | |
| ▪ Coordinator of ML Seminar, with external lecturers from various institutions (2023) | |

2014-2017 Tel-Aviv University

MSc in Applied Mathematics (supervisor: Prof. Yoel Shkolnisky)

- **Summa cum laude**
- Thesis subject: reliability modeling for molecules structural reconstruction
- **[M.Sc. Excellence Reward](#)** of the School of Mathematical Sciences (2015)
- Winner of algo-trading contest for excellent MSc students (2014)

2008-2011 Hebrew University

BSc in Mathematics and Physics

- **"Talpiot" excellence program**
- Both private and group tutor in Infinitesimal Calculus (2011)
- Annual Dean's List of Excellent Students (2009)

SOFTWARE

See a sample of my [independent code projects](#) and [PyPI packages](#), including:

- [Object detection & tracking for traffic analysis](#) in original video dataset
- [[Kaggle](#), silver medal] [prediction of upcoming earthquakes](#) from seismic signal
- [Crawling of Hebrew news websites](#), texts classification and semantic embedding
- Visual [elevators simulator](#) and analysis of various optimizers
- [Numeric calculation of Fisher Information](#) in non-parametric tests

SKILLS

- Languages: Hebrew (native), English (fluent)
- Quantitative modeling and analysis of unstructured problems
- Programming:
 - Expert: Python
 - Competent: C, C++, R, MATLAB
 - Brief experience: Assembly, Java, VBA

All the following skills were specified by supervisors in available written references:

- Quick learner and independent worker
- Creativity and analytical skills
- Outstanding mathematical skills
- Extraordinary written-expression ability

HOBBIES

I enjoy traveling with my friends to both exotic and urban areas around the world. I also enjoy various sport activities, with a particular passion for running and soccer. My soccer team won the National State Cup in 2004, and I was the National Champion in middle-distance running in 2005.